

6. TPV 22-010 COM-PRJ-APP21-39803985 – Brackenridge Park Bond Project Variance Request Variance Request to mitigate for removal of significant trees in excess of the 80% tree preservation requirements and below 100% preservation of heritage trees within the Floodplain & Environmentally Sensitive Areas in place under the 2010 Tree Preservation Ordinance

DEPARTMENT: Development Services

DEPARTMENT HEAD: Michael Shannon

COUNCIL DISTRICTS IMPCTED: District 2

PROJECT: TPV 22-010 COM-PRJ-APP21-39803985 – Brackenridge Park Bond Project

SUBJECT: TPV 22-010 COM-PRJ-APP21-39803985 – Brackenridge Park Bond Project Variance Request

Variance Request to mitigate for removal of significant trees in excess of the 80% tree preservation requirements and below 100% preservation of heritage trees within the Floodplain & Environmentally Sensitive Areas in place under the 2010 Tree Preservation Ordinance

SUMMARY:

Requested by Jamaal Moreno, Project Delivery Division - Vertical Section, Public Works Department, City of San Antonio for a variance to remove trees in excess of the 80% preservation of significant tree preservation and 100% heritage tree preservation requirement within the Floodplain and Environmentally Sensitive Areas as stated under the 2010 Tree Preservation Ordinance. Staff supports the variance request.

BACKGROUND INFORMATION:

Council District: 2

Filing Date: January 4, 2022 Public Works Department on behalf of the Parks & Recreation Department, City of San Antonio

Applicant/Project Manager: Jamaal Moreno, Project Delivery Division, Public Works Department

Staff Coordinator: Jacob Sanchez, Assistant City Arborist, 210-207-0161 jacob.sanchez@sanantonio.gov

ANALYSIS:

The Development Services Department (DSD) has reviewed the information presented in Mr. Jamaal Moreno's letter dated January 19th, 2022. The Unified Development Code (UDC) – Article V, Section 35-523 (h), 100-Year Floodplain(s) and Environmentally Sensitive Areas (ESA) states that, "Significant trees shall be preserved at eighty (80) percent preservation within both the 100-year floodplains and Environmentally Sensitive Areas (ESA). Heritage trees shall be preserved at one hundred (100) percent preservation within both the 100-year floodplain and environmentally sensitive areas. Mitigation shall be prohibited in floodplains and environmentally sensitive area except when a variance is granted by the Planning Commission."

The applicant is requesting a Variance Request to mitigate for removal of significant species trees in excess of the 80% significant tree preservation and the 100% heritage tree preservation requirements within the floodplain and Environmentally Sensitive Areas (ESA) in place under the 2010 Tree Preservation Ordinance for a capital improvement project at Brackenridge Park for the Parks and Recreation Department. The proposed project focuses on the rehabilitation and reconstruction of several historically significant cultural resources. DSD staff does agree with the applicant's request to mitigate for the removal of significant species trees below the minimum 80% and heritage tree preservation below 100% for the following reasons:

1. *Existing site conditions* – The current state of some of the cultural resources in Brackenridge Park are in various states of disrepair with some sections leaning, some cracking and crumbling and other sections already completely failed and fallen including: the Lambert Beach River walls, the Lambert Beach Steps, the Brackenridge Pump House, the Upper Labor Acequia and the Upper Labor Dam. These sections of the park have become a health, safety and welfare issue and have been closed to public access.
 - a. Several of these cultural resources have trees either within them or directly adjacent to them or both, making reconstruction, rehabilitation and/or repair of those resources physically impossible without major detriment to, or removal of, the adjacent trees.
 - b. In some cases, the structural infrastructure that is proposed for restoration is intended to prevent future failures. These cultural resources cannot physically be re-constructed without the removal of adjacent trees.
 - c. Some design alternatives were considered in an attempt to lessen the impacts to the trees that are directly adjacent to the cultural resources. However, it was concluded that there was no alternative design that would accomplish this adequately, as their implementation would each require heavy equipment, major excavation, and major infrastructure to properly rebuild and rehabilitate the cultural resources. As such, the design chosen was based on other factors such as cost and ease of construction.
 - d. In addition, The Texas Historical Commission (THC) and the Office of Historic Preservation (OHP) have both weighed in on the importance of reconstructing and repairing all the cultural resources to their original condition and in their original location and configuration in order to preserve the historical significance of each particular cultural resource. For instance, in the case of the Lambert Beach walls and the Upper Labor Acequia walls, we would not be allowed to move walls forward or backward or adjust any configurations (i.e., lines, curves, angles, etc.) to avoid, or otherwise distance the walls from, any of the existing trees.
 - e. Tree removal in Floodplain & ESA
 - i. Floodplain 80% Minimum Preservation Significant
 - ii. 2,128 total significant inches, 969.5 inches preserved = 46% preservation, 733 inches mitigation Floodplain 100% Minimum Preservation Heritage
 1. 1,083 total heritage inches, 779 inches preserved = 72% preservation, 912” inches mitigation (304” @ 3:1)
 - iii. ESA 80% Minimum Preservation Significant
 1. 124 total significant inches, 86 inches preserved (17” exempt) = 69% preservation, 13 inches mitigation
 - iv. ESA 100% Minimum Preservation Heritage
 1. 136 total heritage inches, 111 inches preserved, 82% preservation, 75 inches mitigation (25”@ 3:1)
 - v. Total Mitigation: 1,633 inches (ESA 13”+75”) (FP 733”+912”) (less 100” excess upland)
2. *Tree mitigation*– The total mitigation required for the removal of significant and heritage trees in the floodplain and ESA is 1,633 inches. The owner proposes a two-fold approach to planting trees to meet mitigation requirements. During the construction phase of the capital improvement project – 219 trees totaling 792 inches of mitigation will be planted. The remaining mitigation balance of 840 inches will be planted within Brackenridge Park but outside of the capital project. The most opportune areas to plant trees will be the St. Mary’s Street corridor within the park boundary, the wilderness area along Avenue B, and the San Antonio River corridor south of Tuleta Dr. The proposed planting of these mitigation trees outside of the capital improvement

project will be throughout the 2023 and winter/spring of 2024. Trees proposed to be planted are native small, medium, and large species trees. The planted trees will range in sizes from 2-inch to 6-inch caliper trees and will provide additional species diversity.

DSD staff supports the applicant's request to fall below the minimum 80% tree preservation of large significant species within the ESA based on the conditions of the site, design constraints, and the applicant is meeting mitigation requirements by planting. The proposed Variance Request meets the intent and spirit of the Tree Ordinance therefore, staff recommends approval.

ISSUE:

The applicants project proposes removal of significant and heritage trees in the floodplain and ESA and does not meet the required minimum preservation of 80% for Large Significant trees and 100% Heritage trees within the Floodplain and Environmentally Sensitive Areas.

ALTERNATIVES:

Planning Commission may decide to deny the variance, which means the applicant will have to comply with the Tree Preservation Ordinance.

RECOMMENDATION:

DSD staff recommends approval of the proposed variance.



CITY OF SAN ANTONIO

DEVELOPMENT SERVICES DEPARTMENT

1901 S. Alamo, San Antonio, TX 78204

ADMINISTRATIVE EXCEPTION/VARIANCE REQUEST APPLICATION

Project Name:	Brackenridge Park Tree Preservation
A/P # /PPR # /Plat #	COM-PRJ-APP21-39803985
Date:	January 19, 2022
Code Issue:	Tree preservation minimums
Code Sections:	Sec. 25-523, f2A and Table 523-1A

Submitted By:	<input checked="" type="checkbox"/> Owner	<input type="checkbox"/> Owners Agent * (Requires notarized Letter of Agent)
Owners Name:	Jamaal Moreno	
Company:	City of San Antonio - Public Works Department	
Address:	P.O. Box 839966	Zip Code: 78283
Tel #:	210-207-6924 Fax#	E-Mail: jamaal.moreno@sanantonio.gov
Consultant:	Kinder Baumgardner	
Company:	SWA Group	
Address:	The Jones on MAIN, 712 Main street, Houston, TX	Zip Code: 77002
Tel #:	713-868-1676 Fax#	E-Mail: kbaumgardner@swagroup.com
Signature:		

Additional Information – Subdivision Plat Variances & Time Extensions				
1.	<input type="checkbox"/> Time Extension	<input type="checkbox"/> Sidewalk	<input type="checkbox"/> Floodplain Permit	<input type="checkbox"/> Completeness Appeal
	<input checked="" type="checkbox"/> Other	Tree permit		
2.	City Council District <u>2</u>	Ferguson Map Grid _____	Zoning District _____	
3.	San Antonio City Limits	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
4.	Edwards Aquifer Recharge Zone?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
5.	Previous/existing landfill?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	
6.	Parkland Greenbelts or open space? Floodplain?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	



January 19, 2022

Variance Request Review¹
City of San Antonio
Development Services
Department 1901 S. Alamo
San Antonio, TX 78204

Re: Brackenridge Park Tree Preservation Project
COM-PRJ-APP21-39803985
Sec. 35-523 (h) & Table 523-1B, Preservation
percentage requirements within the 100-yr
floodplain.

Dear Development Services,

The City of San Antonio Public Works department is currently managing a capital improvement project at Brackenridge Park for the Parks and Recreation Department that focuses on the rehabilitation and reconstruction of several historically significant cultural resources. SWA Group is the design consultant on the project. As project manager for the Public Works Department, I am submitting this Variance Request to the Development Services Department for review and approval.

Our main area of focus for the scope of work on this project is the northern section of Brackenridge Park between Hildebrand Ave. and the San Antonio River, located in Council District 2. The project will include the structural and aesthetic rehabilitation of several cultural resources, an event plaza, a cultural trail, an Upper Labor Dam overlook, underground conversion of electrical services, new lighting, furniture, interpretive signage, pedestrian bridges, landscaping, trees and irrigation.

The project team is requesting a variance regarding section 35-523, (h) and Table 523-1B of the Unified Development Code (UDC) that states the preservation percentage requirements for commercial developments within the 100-yr floodplain. Our understanding of that section is that at least 80% of significant trees and 100% of Heritage trees must be preserved within the 100-yr floodplain. Our current improvement plan for Brackenridge Park project does not meet those percentage requirements.

The cultural resources within this area of the park that we are proposing to address in this capital project include the Lambert Beach River walls, the Lambert Beach Steps, the Brackenridge Pump House, the Upper Labor Acequia and the Upper Labor Dam. These cultural resources are all contributing features to Brackenridge Park, which is on the National Register of Historic Places and is a State Antiquities Landmark.

This current state of some of these cultural resources has led to them being closed off from public access and have become a health, safety and welfare issue that needs to be addressed. Different sections of these cultural resources are in multiple states of disrepair, with some sections leaning, some cracking and crumbling, and some already completely failed and fallen.

Several of these cultural resources have trees either within them or directly adjacent to them or both, making reconstruction, rehabilitation and/or repair of those resources physically impossible without major detriment to, or removal of, the adjacent trees.

To date, there have been no historic records or photographs showing that the trees proposed to be removed were part of the construction plans for any of the cultural resources. However, there are a few concave and convex areas of the WPA era river walls that suggest that the walls may have been purposely constructed around existing or proposed trees at the time. Currently, no trees exist at these locations. It would stand to reason that if this were indeed the case, that the straight portions of the walls had no trees existing or proposed in proximity. These straight sections of river wall constitute the bulk of the tree removal areas, including heritage specimens, and it could be concluded that these trees to be removed were planted sometime after construction of the river walls, possibly by man but more plausibly by nature.

In some cases, the structural infrastructure that is being proposed to prevent future failures and disrepair of these cultural resources cannot physically be constructed without the removal of adjacent trees. In other cases, some trees are negatively impacting the cultural resource and if allowed to continue to grow, would eventually severely damage or destroy said resource. In both cases, it's important to the rehabilitation and the sustainability of the park's cultural resources to remove those trees.

Some design alternatives were considered to attempt to lessen the impact to the trees that were directly adjacent to the cultural resources. However, it was concluded that there was no alternative design that would accomplish this adequately, as their implementation would each require heavy equipment, major excavation, and major infrastructure to adequately rebuild and rehabilitate the cultural resources. As such, the design chosen was based on other factors such as cost and ease of construction.

In addition, it was considered by the design and owner teams to change the design of the walls and build them so that their footprint was further away from some of the trees in question, thus providing space enough to not have to remove trees. However, the Texas Historical Commission (THC) and the Office of Historic Preservation (OHP) have both weighed in on the importance of reconstructing and repairing all the cultural resources to their original condition and **in their original location and configuration** to preserve the historical significance of each cultural resource. For instance, in the case of the Lambert Beach river walls and the Upper Labor Acequia walls, we would not be allowed to move walls forward or backward or adjust any configurations (i.e., lines, curves, angles, etc.) to avoid, or otherwise distance the walls from, any of the existing trees.

Because of this requirement for the preservation of the historically significant cultural resources by the THC, our only option for addressing these multiple sections of river walls and Acequia walls would be to remove those trees that would otherwise not allow us to reconstruct and/or repair the walls in proper fashion and in the manner consistent with the THC's requirements for the project.

Not addressing these resources at all, specifically where trees are directly adjacent, would allow the degradation and structural failure of those cultural resources to continue, exacerbating the current problem and posing a threat to the health, safety, and welfare of the public. In addition, allowing walls to fail where they are retaining the adjacent trees and their root systems would also eventually cause those trees to fail as well.

In conclusion, to adequately rehabilitate and repair all the cultural resources within our capital project's scope of work as proposed, and in accordance with the THC and the OHP, several trees must be removed from the project site equating to less than 80% preservation for significant trees and less than 100% preservation for Heritage trees.

Preservation Calculations

	Floodplain		Floodplain Buffer (ESA)		Upland		Totals
	Significant	Heritage	Significant	Heritage	Significant	Heritage	
Total caliper inches	2128	1083	124	136	195	135	3801
Total inches preserved	969.5	779	86	111	178	135	2258.5
Total inches removed	1158.5	304	38	25	17	0	1542.5
Total mitigation	733	912	13	75	-100	0	1633

Mitigation:

Total proposed inches to be planted during construction phase of the capital improvement project – 792”
 Total number of trees to be planted during construction phase of the capital improvement project – 220
 Remaining mitigation balance to be planted elsewhere within Brackenridge Park – 841”

The construction project that rebuilds and rehabilitates the park’s cultural resources and plants a portion of the mitigation trees will most likely start construction in early 2023 and be complete sometime in the Spring or Summer of 2024. It’s likely that these 220 trees will be planted in spring 2024 to coincide with the latter stages of construction.

As for the balance to be planted elsewhere within Brackenridge Park but outside of the capital project, the most opportune areas to plant would be the St. Mary’s Street corridor within the park boundary, the wilderness area along Avenue B, and the San Antonio River corridor south of Tuleta Dr. Another possible area for a smaller grouping of tree plantings would be the Brackenridge Park main entrance off Broadway, across from Mahncke park. The current plan is to initiate these plantings throughout fall of 2023 and winter/spring of 2024 as a supplemental and concurrent phase of the capital improvement project.

Should you have any questions or require any additional information, please reach out to my office to discuss via email at jamaal.moreno@sanantonio.gov or via phone at 210-207-6924.

Respectfully,

Jamaal Moreno, PLA
 Project Manager
 Project Delivery Division, Vertical Section
 Public Works Department
 City of San Antonio

BRACKENRIDGE PARK

2017 BOND PROGRAM IMPROVEMENTS

A PROJECT OF
THE CITY OF SAN ANTONIO
 114 W. Commerce Street
 11th Floor San Antonio, Texas 78205

ISSUE FOR TREE REMOVAL AND MITIGATION PERMIT
 20 JANUARY 2022

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Date

20 JANUARY 2022

Title

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CND05701

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VICINITY MAP:



SITE: BRACKENRIDGE
 PARK, SAN ANTONIO, TX

BRACKENRIDGE PARK

SAN ANTONIO, TX

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Revisions

- 1
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- 5

Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT

Job Number

CNOS701

Scale

0 20' 40'
1" = 40'

North

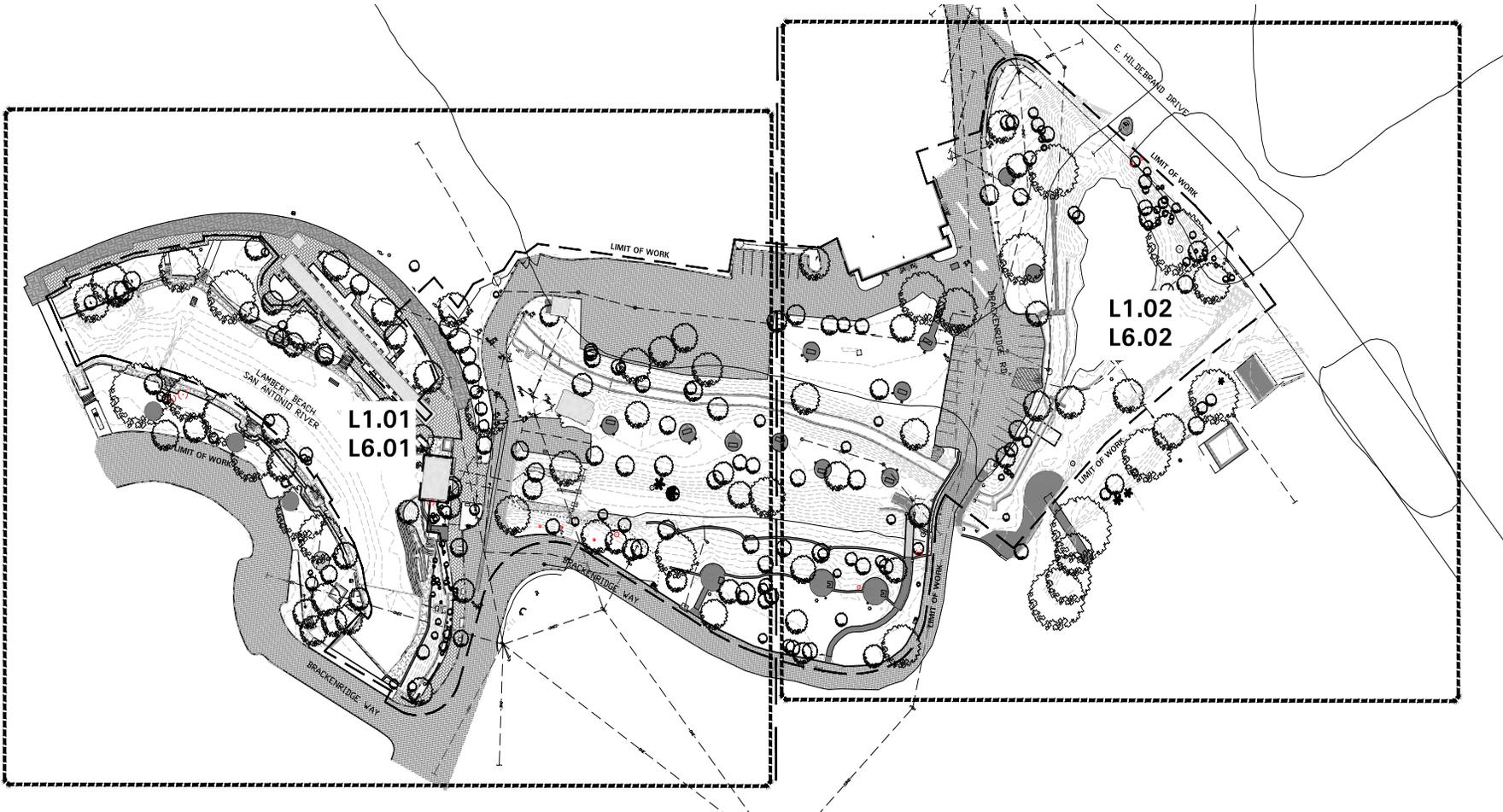


Drawing Title

TREE MITIGATION KEY MAP

Drawing Number

L0.01



TREE REMOVAL NOTES:

1. *TREES TO BE REMOVED UNDER HISTORIAN OVERSIGHT* PER LEGEND WILL REQUIRE A HISTORIAN (PROVIDED BY PWD EMD) TO BE PRESENT BEFORE REMOVAL ACTIVITIES CAN BEGIN.
2. DO NOT STAGE EQUIPMENT ON OR NEAR HISTORIC RIVER WALLS OR HISTORIC STRUCTURES. EXACT DISTANCE WILL DEPEND ON CONDITION OF HISTORIC STRUCTURE. SUPPORT WILL BE PROVIDED BY THE MONITOR ON SITE.
3. IF HEAVY EQUIPMENT (SKID LOADER AND UP) IS TO BE USED NEAR A HISTORIC STRUCTURE, USE EMD APPROVED METHODS OF PROTECTION. CONTACT THE PWD EMD ARCHITECTURAL HISTORIAN (210-207-1454) FOR GUIDANCE.
4. NO MACHINERY SHOULD BE DRIVEN ON TOP OF THE UPPER LABOR DAM.
5. ALL TREES DESIGNATED FOR REMOVAL ARE TO BE REMOVED AT 1" ABOVE GRADE.
6. NO SOIL IS TO BE DISTURBED AS PART OF TREE REMOVAL.
7. ALL TREES TO BE REMOVED SHALL BE MARKED PER TECHNICAL SPECIFICATIONS AND REMOVED UPON REVIEW AND APPROVAL BY OWNER AND LANDSCAPE ARCHITECT.
8. ALL TREES IN AREAS NOT MARKED FOR REMOVAL SHALL REMAIN UNLESS OTHERWISE NOTED. ANY TREE THAT DOES NOT APPEAR ON THE TREE SURVEY SHALL BE VERIFIED WITH THE OWNER AND LANDSCAPE ARCHITECT TO DETERMINE STATUS OF REMOVAL.
9. ALL TREES REMOVED EXCEPT THOSE DESIGNATED BY OWNER SHALL BE MULCHED ON SITE INCLUDING ALL LIMBS/BRANCH DEBRIS AND TRUNK. MULCH GRIND SHALL BE STORED ON SITE UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR REMOVAL AND STORAGE INFORMATION.

EXISTING TREE MAINTENANCE NOTES:

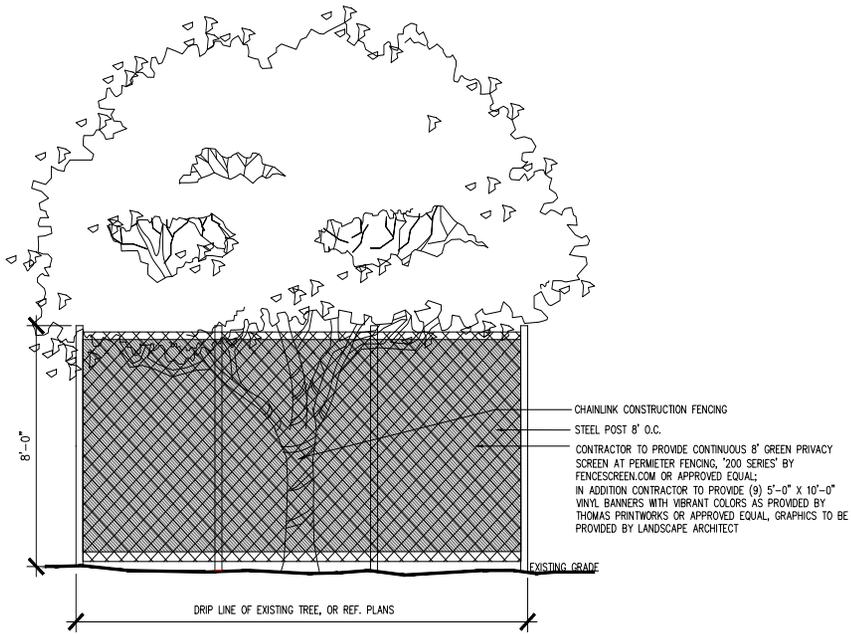
1. TREE MAINTENANCE SHALL OCCUR AS NOTED FOR ALL EXISTING TREES AS REQUIRED PER TECHNICAL SPECIFICATIONS ISSUED. SUCH OPERATIONS MAY INCLUDE TRIMMING, PRUNING, FERTILIZING, WATERING, ROOT PRUNING AND/OR FOLIAGE WASHING AS REQUIRED BY SITE ARBORIST OR LANDSCAPE ARCHITECT.
2. TREE MAINTENANCE OPERATIONS SHALL BE DEEMED HIGH PRIORITY AND SHALL OCCUR WHEN SUCH NOTED OPERATIONS ARE NOTED TO OCCUR AND SHALL OCCUR AS NOTED BY ARBORIST.

GENERAL TREE PROTECTION NOTES:

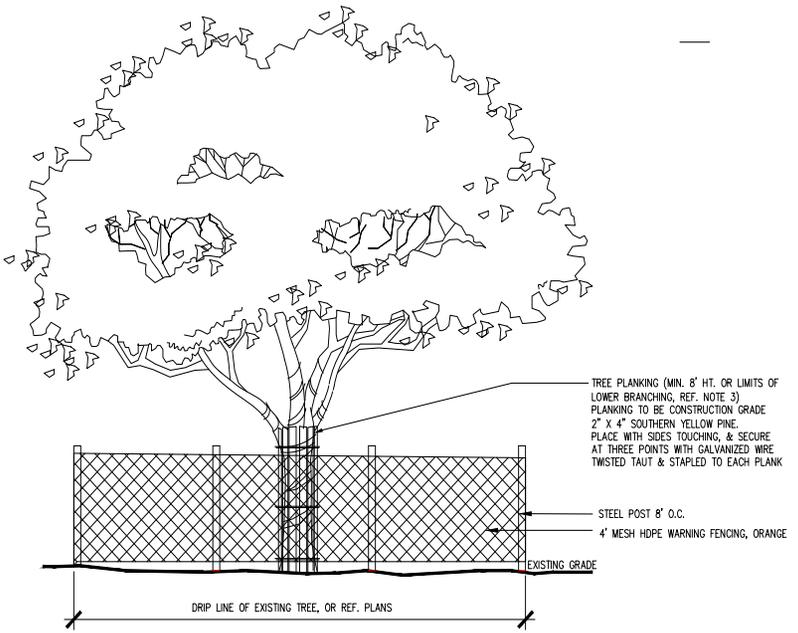
1. ALL TREES INDICATED ON THE TREE PRESERVATION PLANS TO BE PROTECTED SHALL BE PROTECTED WITH TEMPORARY FENCING THROUGHOUT CONSTRUCTION.
2. TREE PROTECTION FENCES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY DEMOLITION AND/OR SITE PREPARATION WORK (CLEARING OR GRUBBING).
3. NO SOIL IS TO BE DISTURBED BY THIS SCOPE OF WORK.
4. FENCES SHALL COMPLETELY SURROUND THE TREE OR CLUSTERS OF TREES. FENCES SHALL BE LOCATED AT THE OUTERMOST LIMITS OF THE TREE BRANCHES (DRIP LINE) AND SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PROJECT. FENCES MAY BE MOVED OR REMOVED TO ENABLE THE PROGRESS OF CONSTRUCTION ONLY AS APPROVED BY THE LANDSCAPE ARCHITECT.
5. WHERE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8' (OR TO THE LIMITS OF THE LOWER BRANCHING) AS INDICATED ON TREE PRESERVATION PLANS.
6. COVER THE ROOT ZONE AREA WITH 4" OF HARDWOOD MULCH, UNDER DIRECTION OF THE LANDSCAPE ARCHITECT, WHERE ROOT ZONES WITHIN DRIP LINES ARE UNPROTECTED BY FENCING.
7. ANY ROOT SEVERED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH SPECIFIED TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH SPECIFIED ORGANIC MATERIAL. THE OWNER AND LANDSCAPE ARCHITECT MUST BE NOTIFIED IMMEDIATELY OF ANY DAMAGE TO PRESERVED TREES.
8. TREES HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE WATERED THOROUGHLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER AS DIRECTED BY THE LANDSCAPE ARCHITECT. TREE CROWNS SHALL BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.

GENERAL TREE PROTECTION NOTES (CONT.):

9. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN A 3" LAYER SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL OR MULCH IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
10. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS BY A RECOGNIZED ARBORIST.
11. ALL FINISHED PRUNING MUST BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES).
12. COVER SEVERED ROOTS AND TREE SIDE OF TRENCH WITH 8 MIL BLACK VISQUENE TO FULL DEPTH OF TRENCH AND 6" OVER TOP. STAPLE VISQUENE IN PLACE, BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL, TO PROTECT ROOT ENDS FROM CONCRETE AND LIME.
13. CORE AERATE AND DEEP ROOT FERTILIZE TREES BY PROBE AND WATER INJECTION OF DAVEY ARBOR GREEN FERTILIZER. REFER TO MANUFACTURER'S MAXIMUM RECOMMENDED RATES PER TREE CALIPER INCHES. INJECT 18"-24" DEEP 9-0" O.C. THROUGHOUT DRIP-LINE OF TREE.
14. CONTRACTOR SHALL MODIFY EXHAUST PIPES ON CONSTRUCTION EQUIPMENT AS NEEDED TO INSURE THAT TREE CROWNS ARE NOT DAMAGED FROM EXHAUST HEAT FROM VERTICAL EXHAUST PIPES ON TOP OF CONSTRUCTION EQUIPMENT.
15. EQUIPMENT MUST NOT TOUCH UNDERSIDE OF TREE CROWNS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TREE WORK/REPAIR TO ANY DAMAGE TO EXISTING TREES DURING THE CONTRACT PERIOD. DAMAGE TO ANY EXISTING TREES SHALL BE REPORTED IMMEDIATELY TO THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL SUBMIT TO OWNER'S REPRESENTATIVE A WRITTEN PROGRAM OF CORRECTIVE PRUNING AND TREE CARE TO REPAIR DAMAGE WITH THE NAME OF A QUALIFIED URBAN FORESTER OR ARBORIST FOR OWNER'S APPROVAL.
17. PLANS ARE DIAGRAMMATIC. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED TREE FENCING LIMITS.
18. ALL EXISTING TREES, IN DESIGNATED PROTECTED AREAS, MUST BE PRUNED TO AVOID DAMAGE BY EQUIPMENT DURING CONSTRUCTION OPERATIONS (REF. SPEC SECTION 02112).
19. THESE NOTES ARE SUPPLEMENTARY TO SPECIFICATION SECTION 015639.



02 PERIMETER FENCING
1 1/2" = 1'-0"



01 TREE FENCE
1 1/2" = 1'-0"

BRACKENRIDGE PARK

SAN ANTONIO, TX

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Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT

Job Number

CNOS701

Scale

North

Drawing Title

TREE PROTECTION AND
DEMOLITION NOTES

Drawing Number

L0.02

BRACKENRIDGE PARK

SAN ANTONIO, TX

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Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT

Job Number

CN05701

Scale

North

Drawing Title

COSA TREE MITIGATION CALCULATIONS

Drawing Number

L0.03

PROPOSED TREES						
SYMBOL	COMMON NAME	BOTANICAL NAME	SIZE	CALIPER PER TREE	QUANTITY	TOTAL CALIPER
	EXISTING TREE					
	SHUMARD OAK	<i>Quercus shumardii</i>	200 GAL	6"	7	42
	TEXAS ASH	<i>Fraxinus pennsylvanica</i>	200 GAL	6"	6	36
	BALD CYPRESS	<i>Taxodium distichum</i>	200 GAL	6"	4	24
	PECAN	<i>Carya illinoensis</i>	200 GAL	6"	4	24
	PECAN	<i>Carya illinoensis</i>	100 GAL	4"	4	16
	LIVE OAK	<i>Quercus virginiana</i>	200 GAL	6"	31	186
	LIVE OAK	<i>Quercus virginiana</i>	100 GAL	4"	38	152
	CEDAR ELM	<i>Ulmus crassifolia</i>	200 GAL	6"	11	66
	CEDAR ELM	<i>Ulmus crassifolia</i>	100 GAL	4"	9	36
	ANACUA	<i>Ehretia anacua</i>	45 GAL	2"	23	46
	POSSUMHAW HOLLY	<i>Ilex decidua</i>	45 GAL	2"	52	104
	RUSTY BLACKHAW VIBURNUM	<i>Viburnum rufidulum</i>	45 GAL	2"	11	22
	YAUPON HOLLY	<i>Ilex vomitoria</i>	45 GAL	2"	19	38
TOTAL CALIPER IN NEW TREES						792

MITIGATION SUMMARY	
<i>RIO 1 OVERLAY DISTRICT</i>	
REQUIRED MITIGATION	
TOTAL FLOODPLAIN EXCESS / MITIGATION:	1645
TOTAL ESA EXCESS / MITIGATION:	88
TOTAL UPLAND EXCESS / MITIGATION:	-100
GRAND TOTAL EXCESS / MITIGATION REQUIRED:	1633
MITIGATION PROVIDED	
MITIGATION PROPOSED AS PROPOSED PLANTINGS (WITHIN PROJECT BOUNDARY)	792
MITIGATION PROPOSED IN FUTURE PROJECT PHASES (PARK-WIDE)	841
MITIGATION PROVIDED AS PAYMENT (\$200 per Inch)	0
MITIGATION BALANCE:	0

Tree Canopy Cover (Floodplain Excluded)					
CITY OF SAN ANTONIO - UDCV-5-15-203 1/19/2022 10:39					
TOTAL PROJECT AREA	70,200 SF				
19% CANOPY REQUIRED	13,338.00 SF PROJECT SITE WITHIN CRFG AREA				
CANOPY MET WITH PRESERVED TREES - REFERENCE TP SERIES					
QTY.	FINANCE VALUE	PERCENT	SOFT	SPECIES	NOTES
1	1,200	100%	1,200	(1) Pecan	
27	475	100%	23,825	(19) Cedar Elm, (8) Oak	
	550	100%	-		
	275	100%	-		
28					
TOTAL PRESERVED CANOPY		24,825 SF			
TOTAL PRESERVED CANOPY		35.2%			
CANOPY MET WITH PROPOSED TREE PLANTINGS - REFERENCE SERIES					
QTY.	FINANCE VALUE	PERCENT	SOFT	SPECIES	NOTES
8	1,200	90%	8,640.00	(8) Pecan	
126	875	90%	101,597.50	(7) Shumard Oak, (5) Ash, (4) Bald Cypress, (86) Live Oak, (20) Cedar Elm, (23) Anacua	
71	275	90%	17,252.50	(52) Possumhaw Holly, (19) Yaupon Holly	
TOTAL PROPOSED CANOPY		127,490 SF			
TOTAL PROPOSED CANOPY		181.6%			
TOTAL CANOPY PROVIDED		192,425 SF			
TOTAL CANOPY PROVIDED		274.2%			
PERCENT INCREASE FROM PRESERVED		252.8%			

BRACKENRIDGE PARK

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TREE REMOVAL AND MITIGATION PERMIT

Job Number

CN05701

Scale

North

Drawing Title

TREE INVENTORY

Drawing Number

L0.05

CITY OF SAN ANTONIO - UDCN-8-20-523

Upland Tree Preservation Inventory

TREE #	TAG #	SPECIES	DBH	SMALL SPECIES TREES**				LARGE SPECIES TREES*					PROTECTED CAL INCHES EXEMPT	COMMENTS		
				SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (1:1)	SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (1:1)	HERITAGE REMOVED (1:1)				
003	2248	Cedar Elm	17							20	17					
006	2243	Cedar Elm	20							6						Multi-trunk
008	2113 (35113)	Cedar Elm	6							7						
010	2114 (35114)	Cedar Elm	7							7						
011	2238	Cedar Elm	12							12						
012	2251	Cedar Elm	9							9						
013	2278	Cedar Elm	12							12						Multi-trunk
054	2228	Cedar Elm	13							13						
015	2223	Oak	27								27					
050	2282	Oak	37								37					
061	1380	Oak	43								43					
052	2229	Cedar Elm	25							23						
053	1383	Cedar Elm	13							13						
054	1384	Cedar Elm	12							12						
055	1283	Cedar Elm	16							16						
056	2252	Cedar Elm	17							17						
057	2109	Cedar Elm	18							18						
060	1306	Live Oak	28								28					
TOTALS			313	0	0	0	0	0	178	17	135	0	0	0		

No category to fall below 20% preservation.

Preserved: Tree to remain that meets not protection zone requirements described in section 35-523 of the LDC.

Mitigation 1:1 for significant trees below minimum preservation requirements; 3:1 for heritage trees below 100% preservation.

**Small species: Cordelia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthorn, Possumhaw - these are mitigated at 1:1 for Heritage Trees

** Ashe Juniper, Nuttall's, Missouri, Arizona Ash, Hackberry protected at 10" dbh and mitigated at 1:1 for heritage trees

UPLAND TREE PRESERVATION SUMMARY			
RID 1 OVERLAY DISTRICT			
TOTAL CAL. INCHES ON SITE:	313		
SIGNIFICANT TREES	HERITAGE TREES		
CAL. INCHES ON SITE:	195	CAL. INCHES ON SITE:	135
CAL. INCHES PRESERVED:	178	CAL. INCHES PRESERVED:	135
CAL. INCHES EXEMPT:	0	CAL. INCHES REMOVED (1:1):	0
CLASS PRESERVATION RATIO:	90%	CAL. INCHES REMOVED (1:1):	0
REQUIRED PRESERVATION RATIO:	40%	CLASS PRESERVATION RATIO:	100%
CLASS PRESERVATION RATIO:	1:1	REQUIRED PRESERVATION RATIO:	100%
CLASS EXCESS / MITIGATION:	-100	CLASS EXCESS / MITIGATION (1:1):	0
		CLASS EXCESS / MITIGATION (1:1):	0
		TOTAL HERITAGE EXCESS / MITIGATION:	0
		TOTAL EXCESS / MITIGATION:	-100

CITY OF SAN ANTONIO - UDCN-8-20-523

ESA Tree Preservation Inventory

TREE #	TAG #	SPECIES	DBH	SMALL SPECIES TREES**				LARGE SPECIES TREES*					PROTECTED CAL INCHES EXEMPT	COMMENTS		
				SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (1:1)	SIGNIFICANT PRESERVED	SIGNIFICANT REMOVED	HERITAGE PRESERVED	HERITAGE REMOVED (1:1)	HERITAGE REMOVED (1:1)				
001	2218	Cedar Elm	21							21						
002	2272	Oak	42							42						
004	2241	Cedar Elm	14							14						
006	2240	Cedar Elm	12							12						
007	2275	Oak	45							45						
009	2115 (35115)	Cedar Elm	13							13						
041	2247	Oak	25								25					
042	2264	Cedar Elm	17							17						
059	2267	Cedar Elm	17							17				17	Outside LDC, Not Counted	
064	2123	Oak	24								24					
065	2147	Pecan	25							25						
216	3022	Oak	5							5						
TOTALS			260	0	0	0	0	0	86	38	111	25	0	17		

No category to fall below 20% preservation.

Preserved: Tree to remain that meets not protection zone requirements described in section 35-523 of the LDC.

Mitigation 1:1 for significant trees below minimum preservation requirements; 3:1 for heritage trees below 100% preservation.

** Small species: Cordelia, Redbud, Tx. Mountain Laurel, Tx. Persimmon, Hawthorn, Possumhaw - these are mitigated at 1:1 for all small trees regardless of size within the Floodplain and heritage trees are mitigated at 1:1

** Ashe Juniper, Nuttall's, Missouri, Arizona Ash, Hackberry protected regardless of size in the Floodplain and mitigated at 1:1 for heritage trees (12" DBH)

ESA PRESERVATION SUMMARY			
RID 1 OVERLAY DISTRICT			
TOTAL CAL. INCHES ON SITE:	260		
SIGNIFICANT TREES	HERITAGE TREES		
CAL. INCHES ON SITE:	124	CAL. INCHES ON SITE:	136
CAL. INCHES PRESERVED:	86	CAL. INCHES PRESERVED:	111
CAL. INCHES EXEMPT:	17	CAL. INCHES REMOVED (1:1):	25
CLASS PRESERVATION RATIO:	69%	CAL. INCHES REMOVED (1:1):	0
REQUIRED PRESERVATION RATIO:	80%	CLASS PRESERVATION RATIO:	62%
CLASS PRESERVATION RATIO:	1:1	REQUIRED PRESERVATION RATIO:	100%
CLASS EXCESS / MITIGATION:	13	CLASS EXCESS / MITIGATION (1:1):	75
		CLASS EXCESS / MITIGATION (1:1):	0
		TOTAL HERITAGE EXCESS / MITIGATION:	75
		TOTAL EXCESS / MITIGATION:	88

FLOODPLAIN TREE PRESERVATION SUMMARY			
RID 1 OVERLAY DISTRICT			
TOTAL CAL. INCHES ON SITE:	3600		
SIGNIFICANT TREES	HERITAGE TREES		
CAL. INCHES ON SITE:	2128	CAL. INCHES ON SITE:	1083
CAL. INCHES PRESERVED:	963.5	CAL. INCHES PRESERVED:	779
CAL. INCHES EXEMPT:	496	CAL. INCHES REMOVED (1:1):	394
CLASS PRESERVATION RATIO:	46%	CAL. INCHES REMOVED (1:1):	0
REQUIRED PRESERVATION RATIO:	80%	CLASS PRESERVATION RATIO:	72%
CLASS PRESERVATION RATIO:	1:1	REQUIRED PRESERVATION RATIO:	100%
CLASS EXCESS / MITIGATION:	733	CLASS EXCESS / MITIGATION (1:1):	912
		CLASS EXCESS / MITIGATION (1:1):	0
		TOTAL HERITAGE EXCESS / MITIGATION:	912
		TOTAL EXCESS / MITIGATION:	565

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Date

20 JANUARY 2022

Phase

TREE REMOVAL AND MITIGATION PERMIT
 Job Number
 CNOS701

Scale

0 10' 20'
 1" = 20'

Drawing Title

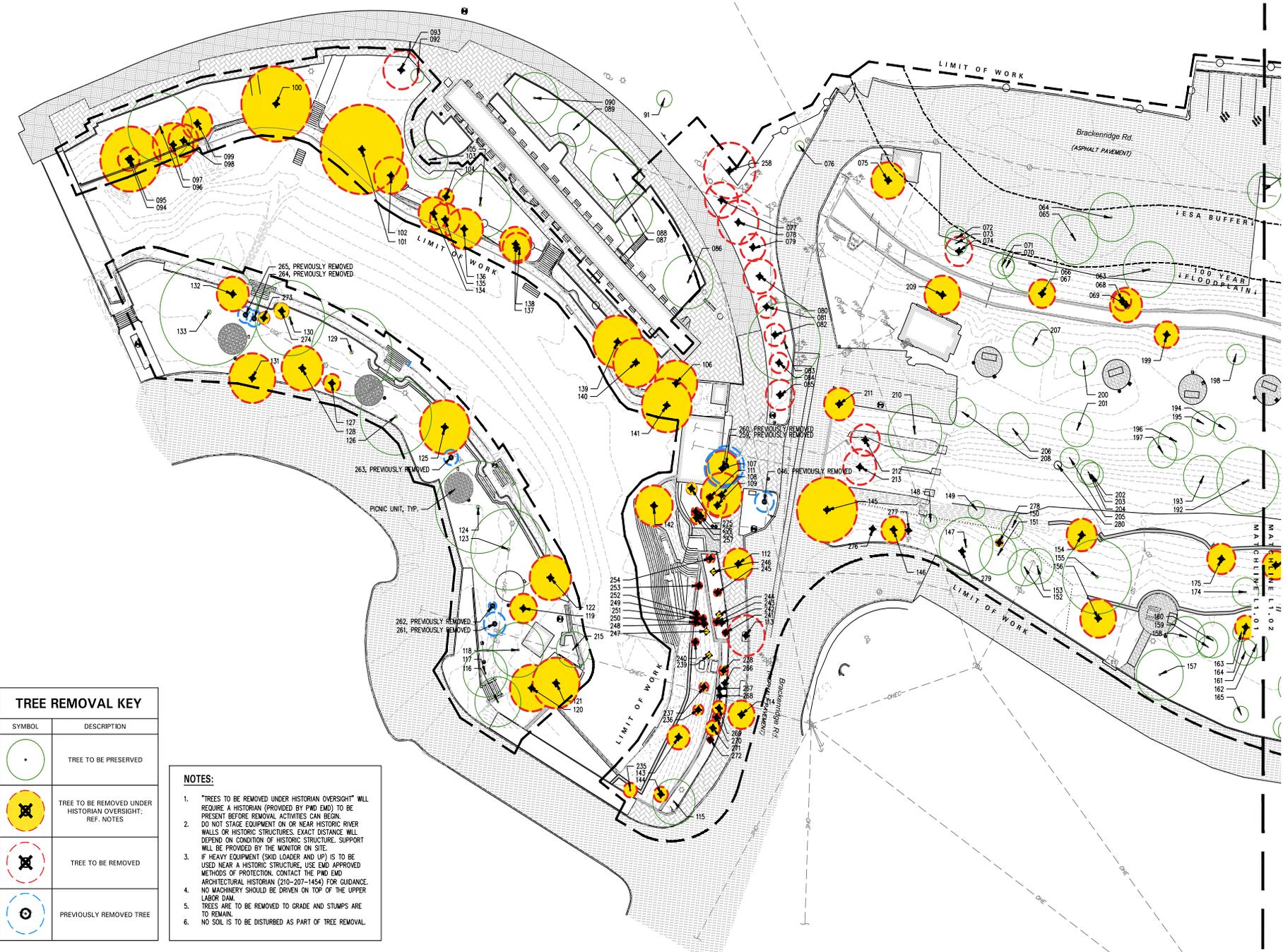
TREE PROTECTION AND
 DEMOLITION PLAN

Drawing Number

L1.01

MATCHLINE L1.02
MATCHLINE L1.01

MATCHLINE L1.02
MATCHLINE L1.01



TREE REMOVAL KEY	
SYMBOL	DESCRIPTION
	TREE TO BE PRESERVED
	TREE TO BE REMOVED UNDER HISTORIAN OVERSIGHT; REF. NOTES
	TREE TO BE REMOVED
	PREVIOUSLY REMOVED TREE

- NOTES:**
1. "TREES TO BE REMOVED UNDER HISTORIAN OVERSIGHT" WILL REQUIRE A HISTORIAN (PROVIDED BY PWD EMD) TO BE PRESENT BEFORE REMOVAL ACTIVITIES CAN BEGIN. DO NOT STAGE EQUIPMENT ON OR NEAR HISTORIC RIVER WALLS OR HISTORIC STRUCTURES. EXACT DISTANCE WILL DEPEND ON CONDITION OF HISTORIC STRUCTURE. SUPPORT WILL BE PROVIDED BY THE MONITOR ON SITE.
 2. IF HEAVY EQUIPMENT (SKID LOADER AND UP) IS TO BE USED NEAR A HISTORIC STRUCTURE, USE EMD APPROVED METHODS OF PROTECTION. CONTACT THE PWD EMD ARCHITECTURAL HISTORIAN (210-207-1454) FOR GUIDANCE. NO MACHINERY SHOULD BE DRIVEN ON TOP OF THE UPPER LABOR DAM.
 3. TREES ARE TO BE REMOVED TO GRADE AND STUMPS ARE TO REMAIN.
 4. NO SOIL IS TO BE DISTURBED AS PART OF TREE REMOVAL.

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TREE REMOVAL AND MITIGATION PLAN

Job Number

CNOS701

Scale

0 10' 20'

1" = 20'

Drawing Title

TREE PROTECTION AND DEMOLITION PLAN

Drawing Number

L1.02



TREE REMOVAL KEY

SYMBOL	DESCRIPTION
	TREE TO BE PRESERVED
	TREE TO BE REMOVED UNDER HISTORIAN OVERSIGHT; REF. NOTES
	TREE TO BE REMOVED
	PREVIOUSLY REMOVED TREE

NOTES:

1. "TREES TO BE REMOVED UNDER HISTORIAN OVERSIGHT" WILL REQUIRE A HISTORIAN (PROVIDED BY PWD EMD) TO BE PRESENT BEFORE REMOVAL ACTIVITIES CAN BEGIN. DO NOT STAGE EQUIPMENT ON OR NEAR HISTORIC RIVER WALLS OR HISTORIC STRUCTURES. EXACT DISTANCE WILL DEPEND ON CONDITION OF HISTORIC STRUCTURE. SUPPORT WILL BE PROVIDED BY THE MONITOR ON SITE.
2. IF HEAVY EQUIPMENT (SKID LOADER AND UP) IS TO BE USED NEAR A HISTORIC STRUCTURE, USE EMD APPROVED METHODS OF PROTECTION. CONTACT THE PWD EMD ARCHITECTURAL HISTORIAN (210-207-1454) FOR GUIDANCE.
3. NO MACHINERY SHOULD BE DRIVEN ON TOP OF THE UPPER LABOR DAM.
4. TREES ARE TO BE REMOVED TO GRADE AND STUMPS ARE TO REMAIN.
5. NO SOIL IS TO BE DISTURBED AS PART OF TREE REMOVAL.

MATCHLINE L1.02
MATCHLINE L1.01

MATCHLINE L1.02
MATCHLINE L1.01



001
CEDAR ELM | 21
TAG #2218
PRESERVED



002
OAK | 42
TAG #2272
PRESERVED



003
CEDAR ELM | 17
TAG #2248
REMOVED



004
CEDAR ELM | 14
TAG #2241
PRESERVED



005
CEDAR ELM | 20
TAG #2243
PRESERVED



006
CEDAR ELM | 12
TAG #2240
PRESERVED



007
LIVE OAK | 45
TAG #2275
PRESERVED



008
CEDAR ELM | 6
TAG #0113
PRESERVED



009
CEDAR ELM | 13
TAG #0115
PRESERVED



010
CEDAR ELM | 7
TAG #0114
PRESERVED



011
CEDAR ELM | 12
TAG #2238
PRESERVED



012
CEDAR ELM | 9
TAG #2251
PRESERVED



013
CEDAR ELM | 12
TAG #2278
PRESERVED



014
CEDAR ELM | 13
TAG #2278
PRESERVED



015
OAK | 27
TAG #2223
PRESERVED



016
WILLOW | 11
TAG #2238
PRESERVED



017
WILLOW | 11
TAG #2262
REMOVED



018
OAK | 8
TAG #2262
PRESERVED



019
CHINABERRY | 7
TAG #2232
INVASIVE; REMOVED



020
HACKBERRY | 12
TAG #2234
INVASIVE; REMOVED



021
WILLOW | 19
TAG #2260
REMOVED



022
WILLOW | 19
TAG #2221
REMOVED



023
ASH | 8
TAG #2233
PRESERVED



024
OAK | 54
TAG #2253
PRESERVED



025
TEXAS MOUNTAIN LAUREL
TAG #2222
PRESERVED



026
OAK | 18
TAG #0135
PRESERVED



027
TEXAS MOUNTAIN LAUREL | 3
TAG #2216
PRESERVED



028
TEXAS MOUNTAIN LAUREL | 3
TAG #2216
PRESERVED

BRACKENRIDGE PARK

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TREE REMOVAL AND MITIGATION PERMIT

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North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.03



029
HACKBERRY | 4
TAG # 3014
PRESERVED



030
CEDAR ELM | 34
TAG #2254
PRESERVED



031
OAK | 15
TAG #2236
REMOVED



032
CEDAR ELM | 12
TAG #2220
REMOVED



033
WILLOW | 12
TAG #2242
REMOVED



034
WILLOW | 7
TAG #2256
REMOVED



035
WILLOW | 16
TAG #2257
REMOVED



036
WILLOW | 8
TAG #2227
REMOVED; PREVIOUSLY REMOVED



037
WILLOW | 11
TAG #2284
REMOVED; PREVIOUSLY REMOVED



038
ASH | 11
TAG #2274
REMOVED; PREVIOUSLY REMOVED



039
WILLOW | 16
TAG #2225
REMOVED; PREVIOUSLY REMOVED



040
WILLOW | 28
TAG #7125
REMOVED



041
OAK | 28
TAG #2247
PRESERVED



042
CEDAR ELM | 17
TAG #2264
PRESERVED



043
CEDAR ELM | 17
TAG #2217
PRESERVED



044
CEDAR ELM | 12
TAG #2231
PRESERVED



045
CEDAR ELM | 18
TAG #2266
PRESERVED



047
BALD CYPRESS | 6
TAG #6711
PRESERVED



048
WILLOW | 13
TAG #6370
PRESERVED; OUTSIDE LOW



050
OAK | 37
TAG #2249
PRESERVED



051
OAK | 43
TAG #1381
PRESERVED



052
CEDAR ELM | 23
TAG #2259
PRESERVED



053
CEDAR ELM | 13
TAG #1383
PRESERVED



054
CEDAR ELM | 12
TAG #1384
PRESERVED



055
CEDAR ELM | 16
TAG #2283
PRESERVED



056
CEDAR ELM | 17
TAG #2252
PRESERVED



057
CEDAR ELM | 18
TAG #2109
PRESERVED

BRACKENRIDGE PARK

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TREE REMOVAL AND MITIGATION PERMIT

Job Number

CNOS701

Scale

North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.04



058
OAK | 26
TAG #2285
PRESERVED



059
CEDAR ELM | 17
TAG #2267
PRESERVED



060
CEDAR ELM | 26
TAG #2268
PRESERVED



061
BLACK OAK | 8
CITY TAG 3403
REMOVED



062
TREE SPECIES | SIZE
CONDITION
CITY TAG #



063
ANACUA | 28
TAG #2285
PRESERVED



064
OAK | 24
TAG #2131
PRESERVED



065
PECAN | 25
TAG #2147
PRESERVED



066
PECAN | 29
TAG #2111
PRESERVED



067
CEDAR ELM | 14
TAG #2300
REMOVED



068
CEDAR ELM | 10
TAG #2350
REMOVED



069
ANACUA | 28
TAG #2377
REMOVED



070
CEDAR ELM | 9
TAG #2122
PRESERVED



071
CEDAR ELM | 13
TAG #2194
PRESERVED



072
OAK | 18
TAG #3027
PRESERVED



073
OAK | 12
TAG #3028
PRESERVED



074
CEDAR ELM | 15
TAG #2138
REMOVED



075
OAK | 18
TAG #2209
REMOVED



076
HACKBERRY | 5
TAG #0132
PRESERVED



077
CREPE MYRTLE | 17
TAG #2304
REMOVED



078
CREPE MYRTLE | 22
TAG #2357
REMOVED



079
CREPE MYRTLE | 14
TAG #10430
REMOVED



080
CREPE MYRTLE | 17
TAG #2379
REMOVED



081
CREPE MYRTLE | 11
TAG #2369
REMOVED



082
CREPE MYRTLE | 11
TAG #2349
REMOVED



083
OAK | 39
TAG #2303
REMOVED



084
CREPE MYRTLE | 10
TAG #2321
REMOVED



085
CREPE MYRTLE | 15
TAG #2323
REMOVED

BRACKENRIDGE PARK

SAN ANTONIO, TX

Client

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LOCAL LANDSCAPE

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ARCHITECT

OVERLAND
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SAN ANTONIO, TX 78215

HISTORICAL ARCHITECT

SEVENTH GENERATION DESIGN
933 NORTH FLORES STREET, SUITE B
SAN ANTONIO, TX 78212

STRUCTURAL ENGINEER

SPARKS ENGINEERING, INC.
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MEP

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201, SAN ANTONIO TX, 78208

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Phase

TREE REMOVAL AND MITIGATION PERMIT

Job Number

CNOS701

Scale

North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.05

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CNOS701

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North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.06



086
BALD CYPRESS | 27
TAG #6000
PRESERVED; OUTSIDE LOW



087
BALD CYPRESS | 21
TAG #6001
PRESERVED; OUTSIDE LOW



088
OAK | 23
TAG #6002
PRESERVED; OUTSIDE LOW



089
BALD CYPRESS | 17
TAG #6003
PRESERVED; OUTSIDE LOW



090
OAK | 25
TAG #6004
PRESERVED; OUTSIDE LOW



091
CREPE MYRTLE | 9
TAG #3029
PRESERVED; OUTSIDE LOW



092
OAK | 7
TAG #2229
PRESERVED; OUTSIDE LOW



093
BALD CYPRESS | 19
TAG #2234
REMOVED; DEAD (NOT COUNTED)



094
CHINESE TALLOW | 12
TAG #2339
REMOVED; INVASIVE SPECIES (NOT COUNTED)



095
OAK | 32
TAG #2334
REMOVED



096
OAK | 34
TAG #2338
PRESERVED



097
OAK | 18
TAG #2364
PRESERVED



098
OAK | 22
TAG #2310
PRESERVED



099
OAK | 16
TAG #2335
PRESERVED



100
OAK | 37
TAG #6006
REMOVED



101
OAK | 44
TAG #6006
REMOVED



102
CEDAR ELM | 18
TAG #2319
PRESERVED



103
BALD CYPRESS | 20
TAG #6007
PRESERVED; OUTSIDE LOW



104
PECAN | 8
TAG #6007
REMOVED



105
OAK | 33
TAG #2366
PRESERVED



106
CYPRESS | 23
TAG #2358
REMOVED



107
PECAN | 18
TAG #2364
REMOVED



108
PECAN | 22
TAG #2392
REMOVED



109
CREPE MYRTLE | 10
TAG #2325
REMOVED



111
YAUPON | 3
TAG #3026
REMOVED



112
CREPE MYRTLE | 16
TAG #2372
REMOVED



113
PECAN | 20
TAG #2375
REMOVED



114
CEDAR ELM | 23
TAG #2345
REMOVED



115
CEDAR ELM | 23
TAG #2345
PRESERVED



116
PECAN | 25
TAG #2359
PRESERVED; OUTSIDE LOW



117
PECAN | 24
TAG #2314
PRESERVED; OUTSIDE LOW



118
CREPE MYRTLE | 27
TAG #2387
PRESERVED; OUTSIDE LOW



119
CREPE MYRTLE | 15
TAG #2311
REMOVED



120
CREPE MYRTLE | 23
TAG #2344
PRESERVED; OUTSIDE LOW



121
CREPE MYRTLE | 25
TAG #2371
PRESERVED; OUTSIDE LOW



122
PECAN | 22
TAG #2383
REMOVED



123
CYPRESS | 40
TAG #2342
PRESERVED; OUTSIDE LOW



124
BALD CYPRESS | 46
TAG #2388
PRESERVED; OUTSIDE LOW



125
CREPE MYRTLE | 27
TAG #2343
REMOVED



126
BALD CYPRESS | 38
TAG #2398
PRESERVED; OUTSIDE LOW



127
CREPE MYRTLE | 9
TAG #2378
REMOVED



128
CREPE MYRTLE | 22
TAG #2356
REMOVED



129
BALD CYPRESS | 43
TAG #2226
PRESERVED; OUTSIDE LOW



130
BALD CYPRESS | 37
TAG #2337
PRESERVED; OUTSIDE LOW



131
HACKBERRY | 25
TAG #2315
REMOVED



132
CREPE MYRTLE | 17
TAG #2300
REMOVED



133
BALD CYPRESS | 53
TAG #2320
PRESERVED; OUTSIDE LOW



134
OAK | 16
TAG #6008
REMOVED



135
OAK | 15
TAG #6009
REMOVED



136
OAK | 20
TAG #6010
REMOVED



137
CEDAR ELM | 17
TAG #6011
REMOVED



138
CEDAR ELM | 16
TAG #6012
REMOVED



139
PECAN | 26
TAG #2385
REMOVED



140
PECAN | 24
TAG #2385
REMOVED



141
BALD CYPRESS | 27
TAG #2354
REMOVED



142
PECAN | 20
TAG #2316
REMOVED; DEAD (NOT COUNTED)

BRACKENRIDGE PARK

SAN ANTONIO, TX

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TREE REMOVAL AND MITIGATION PERMIT

Job Number

CNOS701

Scale

North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.07



143
CEDAR ELM | 12
TAG #2318
REMOVED



144
EVE'S NECKLACE | 8
TAG #2373
REMOVED



145
OAK | 32
TAG #2126
REMOVED



146
TURISOKE | 13
TAG #2134
REMOVED



147
PECAN | 28
TAG #2426
PRESERVED



148
TREE SPECIES | SIZE
CONDITION
CITY TAG #



149
ASH | 7
TAG #3030
PRESERVED



150
PECAN | 12
TAG #2426
PRESERVED



151
OAK | 20
TAG #2425
PRESERVED



152
PECAN | 18
TAG #2424
PRESERVED



153
OAK | 16
TAG #2423
PRESERVED



154
PECAN | 16
TAG #2039
REMOVED



155
OAK | 37
TAG #2307
PRESERVED



156
CEDAR ELM | 19
TAG #1001
REMOVED



157
CEDAR ELM | 25
TAG #1002
PRESERVED



158
CEDAR ELM | 20
TAG #1003
PRESERVED



159
CEDAR ELM | 11
TAG #1005
PRESERVED



160
CEDAR ELM | 18
TAG #1004
PRESERVED



161
CEDAR ELM | 13
TAG #1007
PRESERVED



162
CEDAR ELM | 13
TAG #1009
PRESERVED



163
CEDAR ELM | 9
TAG #1007
PRESERVED



164
CEDAR ELM | 12
TAG #1006
REMOVED



165
CEDAR ELM | 8
TAG #1010
PRESERVED



166
CEDAR ELM | 20
TAG #1011
PRESERVED



167
CEDAR ELM | 11
TAG #1012
PRESERVED



168
CEDAR ELM | 13
TAG #1013
PRESERVED



169
CEDAR ELM | 18
TAG #1014
PRESERVED



170
CEDAR ELM | 14
TAG #1015
PRESERVED

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TREE REMOVAL AND MITIGATION PERMIT

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CNOS701

Scale

North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.08



171
OAK | 11
TAG #1016
PRESERVED



172
OAK | 19
TAG #1017
PRESERVED



173
PECAN | 35
TAG #1018
PRESERVED



174
CEDAR ELM | 14
TAG #2306
PRESERVED



175
PECAN | 15
TAG #2311
REMOVED



176
CEDAR ELM | 14
TAG #2304
REMOVED



177
CEDAR ELM | 17
TAG #2305
PRESERVED



178
LIGUSTRUM | 16
TAG #2312
REMOVED



179
LIGUSTRUM | 16
TAG #2313
REMOVED



180
CHINABERRY | 7
TAG #2401
REMOVED



181
LIGUSTRUM | 11
TAG #2314
REMOVED



182
PECAN | 14
TAG #2315
REMOVED



183
LIGUSTRUM | 10
TAG #2316
REMOVED



184
PECAN | 13
TAG #2317
PRESERVED



185
OAK | 21
TAG #2318
PRESERVED



186
PECAN | 20
TAG #2319
PRESERVED



187
ANACUA | 8
TAG #2402
PRESERVED



188
OAK | 16
TAG #2290
REMOVED



189
TREE SPECIES | SIZE
CONDITION
CITY TAG #



190
CEDAR ELM | 9
TAG #2198
REMOVED



191
CEDAR ELM | 14
TAG #2206
PRESERVED



192
OAK | 33
TAG #2216
PRESERVED



193
OAK | 22
TAG #2294
PRESERVED



194
OAK | 13
TAG #2295
PRESERVED



195
OAK | 13
TAG #2296
PRESERVED



196
OAK | 19
TAG #2297
PRESERVED



197
OAK | 15
TAG #2298
PRESERVED



198
CEDAR | 10
TAG #2211
PRESERVED

BRACKENRIDGE PARK

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ARCHITECT

OVERLAND
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Phase

TREE REMOVAL AND MITIGATION PERMIT

Job Number

CNOS701

Scale

North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.09



199
OAK | 19
TAG #2199
REMOVED



200
OAK | 15
TAG #2101
PRESERVED



201
OAK | 18
TAG #2299
PRESERVED



202
PALM | 20
TAG #2120
PRESERVED



203
PALM | 18
TAG #2120
PRESERVED



204
BOX ELDER | 12
TAG #2207
PRESERVED



205
PALM | 22
TAG #2169
PRESERVED



206
OAK | 17
TAG #2300
PRESERVED



207
OAK | 16
TAG #2203
PRESERVED



208
OAK | 22
TAG #2430
PRESERVED



209
PECAN | 19
TAG #193
REMOVED



210
PECAN | 29
TAG #2168
PRESERVED



211
PECAN | 16
TAG #2144
REMOVED



212
OAK | 16
TAG #2123
REMOVED



213
PECAN | 18
TAG #2204
REMOVED



214
BOX ELDER | 10
TAG #10021
PRESERVED



215
CREPE MYRTLE | 19
TAG #3022
PRESERVED; OUTSIDE LOW



216
OAK | 5
TAG #3022
PRESERVED



217
OAK | 5
TAG #3022
PRESERVED



218
OAK | 3
TAG #3020
PRESERVED



219
OAK | 4
TAG #3001
PRESERVED



220
OAK | 4
TAG #3000
PRESERVED



221
BOX ELDER | 5
TAG #3016
PRESERVED



222
BOX ELDER | 5
TAG #3015
PRESERVED



223
LIQUIDRUM | 6
TAG #3011
REMOVED; UNDESIRABLE SPECIES (NOT COUNTED)



224
HACKBERRY | 4
TAG #3017
PRESERVED



225
HACKBERRY | 4
TAG #3018
PRESERVED



226
BLACK WILLOW | 8
TAG #3010
REMOVED

BRACKENRIDGE PARK

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CNOS701

Scale

North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.10



227
GOLDEN RAINTREE | 5
TAG #3010
PRESERVED



228
HACKBERRY | 5
TAG #3007
PRESERVED



229
RED OAK | 5
TAG #3005
PRESERVED



230
HACKBERRY | 9
TAG #3006
PRESERVED



231
LIGUSTRUM | 6
TAG #3009
PRESERVED



232
OAK | 3
TAG #3003
PRESERVED



233
ANACUA | 3
TAG #3004
PRESERVED



234
OAK | 4
TAG #3000
PRESERVED



235
ANACUA | 8
TAG #10427
REMOVED



236
OAK | 6
TAG #10426
REMOVED



237
HUISACHE | 5
TAG #10425
REMOVED



238
YAUPON | 5
TAG #3017
REMOVED



239
MESQUITE | 2
TAG #10424
REMOVED



240
CREPE MYRTLE | 3
TAG #0421
REMOVED



241
YAUPON HOLLY | 2
TAG #10406
REMOVED



242
ELM | 1
TAG #10405
REMOVED



243
ELM | 1
TAG #10405
REMOVED



244
HACKBERRY | 2
TAG #10403
REMOVED



245
HACKBERRY | 4
TAG #10402
REMOVED



246
ELM | 2
TAG #10401
REMOVED



247
CYPRESS | 3
TAG #10423
REMOVED



247
CYPRESS | 3
TAG #10422
REMOVED



248
HACKBERRY | 3
TAG #10422
REMOVED



249
CHINABERRY | 4
TAG #10418
REMOVED



250
OAK | 4
TAG #10420
REMOVED



251
HACKBERRY | 2
TAG #10411
REMOVED



252
HACKBERRY | 4
TAG #10417
PRESERVED



253
PECAN | 4
TAG #0415
REMOVED

BRACKENRIDGE PARK

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Job Number

CNOS701

Scale

North

NOT TO SCALE

Drawing Title

TREE SURVEY

Drawing Number

L1.11

BRACKENRIDGE PARK

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Drawing Title

TREE SURVEY

Drawing Number

L1.12



254
 YAUPON HOLLY | 5
 TAG #10400
 REMOVED



255
 CREPE MYRTLE | 4
 TAG #3025
 REMOVED



256
 BUCKEYE | 5
 TAG #3005
 REMOVED



257
 HACKBERRY | 9
 TAG #3006
 REMOVED



258
 PECAN | 28
 TAG #10431
 PRESERVED, OUTSIDE LOW



266
 MESQUITE | 4
 TAG #10408
 REMOVED



267
 BUCKEYE | 8
 TAG #10409
 REMOVED



268
 MESQUITE | 4.5
 TAG #10410
 REMOVED



269
 BUCKEYE | 2
 TAG #10411
 REMOVED



270
 HACKBERRY | 4
 TAG #10412
 REMOVED



271
 HACKBERRY | 8
 TAG #10413
 REMOVED



272
 HACKBERRY | 3
 TAG #10414
 REMOVED



273
 CREPE MYRTLE | 6
 TAG #2335
 REMOVED



274
 CREPE MYRTLE | 8
 TAG #2370
 REMOVED, DEAD



275
 YAUPON | 2
 NO TAG
 REMOVED



276
 BUCKEYE | 2
 NO TAG
 REMOVED



277
 BUCKEYE | 2
 NO TAG
 REMOVED



278
 CHINABERRY | 4
 NO TAG
 REMOVED



279
 YAUPON HOLLY | 2
 NO TAG
 PRESERVED



280
 ANAGUA | 2.5
 NO TAG
 PRESERVED



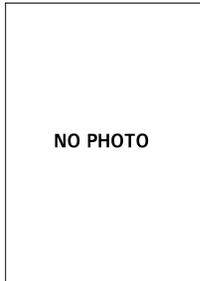
281
 HACKBERRY | 3
 NO TAG
 PRESERVED



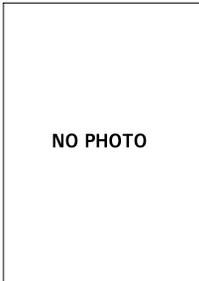
282
 WILLOW | 4
 NO TAG
 PRESERVED



283
 PAPER MULBERRY | 6
 NO TAG
 REMOVED, INVASIVE



284
 HACKBERRY | 2
 NO TAG
 PRESERVED



285
 HACKBERRY | 2
 NO TAG
 PRESERVED



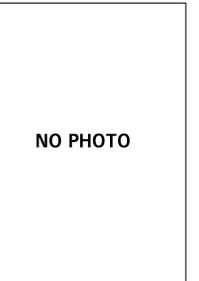
286
 HACKBERRY | 6
 NO TAG
 PRESERVED



287
 TREE OF HEAVEN | 2
 NO TAG
 REMOVED



288
 TREE OF HEAVEN | 2
 NO TAG
 REMOVED



289
 CREPE MYRTLE | 2
 NO TAG
 PRESERVED

NO PHOTO

NO PHOTO

NO PHOTO

NO PHOTO

NO PHOTO